8-002.03 UPPER SANTA ANA VALLEY - RIVERSIDE-ARLINGTON

Basin Boundaries

Summary

The Riverside-Arlington groundwater subbasin underlies a portion of the Santa Ana River Valley in northwestern Riverside County and southwestern San Bernardino County. The subbasin is bound on the northwest by the Chino Basin (1978) groundwater adjudication boundary and by impermeable plutonic rocks of the La Sierra Hills, Pedley Hills, and Jurupa Hills. The northeast boundary of the subbasin is the Rialto-Colton fault. The subbasin is bound by impermeable rocks of the Box Springs Mountains on the southeast and bound by Arlington Mountain on the south. The subbasin is bound on the west by the adjoining Temescal subbasin, which is separated from the Riverside-Arlington subbasin by a narrow bedrock constriction. The basin boundary is defined by 68 segments detailed in the descriptions below.

Segment Descriptions

Segment Label	Segment Type	Description	Ref
1-2	I Fault	Begins from point (1) and approximately follows the Rialto-Colton fault to point (2).	{a}
2-3	I Unknown	Continues from point (2) and follows an unknown feature to point (3).	{b}
3-4	E Alluvial	Continues from point (3) and generally follows the contact of Quaternary alluvium with various Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks to point (4).	{a}
4-5	I Management Area	Continues from point (4) and follows the boundary of the City of Corona AB3030 Groundwater Management Plan to point (5).	{c}
5-6	I Non-Alluvial	Continues from point (5) and crosses the Quaternary alluvium at a narrow bedrock constriction, referred to as Arlington Gap, to point (6).	{a}
6-7	E Alluvial	Continues from point (6) and generally follows the contact of Quaternary alluvium with various Cretaceous plutonic rocks of the La Sierra Hills to point (7).	{a}
7-8	I Non-Alluvial	Continues from point (7) and crosses the Quaternary alluvium following a groundwater barrier resulting from impermeable granitic rocks of the La Sierra Hills to point (8).	{d}
8-9	E Alluvial	Continues from point (8) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and various Paleozoic to Mesozoic metasedimentary and metavolcanic rocks that form the Pedley Hills to point (9).	{a}
9-10	I Management Area	Continues from point (9) and follows the Chino Basin judgment (1978) boundary to point (10).	{e}
10-11	E Alluvial	Continues from point (10) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and various Paleozoic to Mesozoic metasedimentary rocks that form the Jurupa Hills to point (11).	{a}
11-1	I Management Area	Continues from point (11) and follows the Chino Basin judgment (1978) boundary and ends at point (1).	{e}
12-12	E Alluvial	Island within the basin boundary: begins from point (12) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (12).	{a}
13-13	E Alluvial	Island within the basin boundary: begins from point (13) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (13).	{a}
14-14	E Alluvial	Island within the basin boundary: begins from point (14) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (14).	{a}
15-15	E Alluvial	Island within the basin boundary: begins from point (15) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (15).	{a}
16-16	E Alluvial	Island within the basin boundary: begins from point (16) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (16).	{a}
17-17	E Alluvial	Island within the basin boundary: begins from point (17) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (17).	{a}
18-18	E Alluvial	Island within the basin boundary: begins from point (18) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks and ends at point (18).	{a}
19-19	E Alluvial	Island within the basin boundary: begins from point (19) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks and ends at point (19).	{a}

Segment Label	Segment Type	Description	Ref
20-20	E Alluvial	Island within the basin boundary: begins from point (20) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks and ends at point (20).	{a}
21-21	E Alluvial	Island within the basin boundary: begins from point (21) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks and ends at point (21).	{a}
22-22	E Alluvial	Island within the basin boundary: begins from point (22) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (22).	{a}
23-23	E Alluvial	Island within the basin boundary: begins from point (23) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (23).	{a}
24-24	E Alluvial	Island within the basin boundary: begins from point (24) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks and ends at point (24).	{a}
25-25	E Alluvial	Island within the basin boundary: begins from point (25) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (25).	{a}
26-26	E Alluvial	Island within the basin boundary: begins from point (26) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (26).	{b}
27-27	E Alluvial	Island within the basin boundary: begins from point (27) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (27).	{a}
28-28	E Alluvial	Island within the basin boundary: begins from point (28) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (28).	{a}
29-29	E Alluvial	Island within the basin boundary: begins from point (29) and generally follows the contact of Quaternary alluvium with Paleozoic to Mesozoic metasedimentary rocks and ends at point (29).	{a}
30-30	E Alluvial	Island within the basin boundary: begins from point (30) and generally follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and Paleozoic to Mesozoic metasedimentary rocks and ends at point (30).	{a}
31-31	E Alluvial	Island within the basin boundary: begins from point (31) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (31).	{a}
32-32	E Alluvial	Island within the basin boundary: begins from point (32) and generally follows the contact of Quaternary alluvium with Paleozoic to Mesozoic metasedimentary rocks and ends at point (32).	{a}
33-33	E Alluvial	Island within the basin boundary: begins from point (33) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (33).	{a}
34-34	E Alluvial	Island within the basin boundary: begins from point (34) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (34).	{a}
35-35	E Alluvial	Island within the basin boundary: begins from point (35) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (35).	{a}
36-36	E Alluvial	Island within the basin boundary: begins from point (36) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (36).	{a}
37-37	E Alluvial	Island within the basin boundary: begins from point (37) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (37).	{a}
38-38	E Alluvial	Island within the basin boundary: begins from point (38) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (38).	{a}
39-39	E Alluvial	Island within the basin boundary: begins from point (39) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (39).	{a}
40-40	E Alluvial	Island within the basin boundary: begins from point (40) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (40).	{a}
41-41	E Alluvial	Island within the basin boundary: begins from point (41) and follows the contact of Quaternary alluvium and unnamed Pliocene sedimentary rocks with Cretaceous plutonic rocks and ends at point (41).	{a}
42-42	E Alluvial	Island within the basin boundary: begins from point (42) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (42).	{a}
43-43	E Alluvial	Island within the basin boundary: begins from point (43) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (43).	{a}
44-44	E Alluvial	Island within the basin boundary: begins from point (44) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (44).	{a}

Segment Label	Segment Type	Description	Ref
45-45	E Alluvial	Island within the basin boundary: begins from point (45) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (45).	{a}
46-46	E Alluvial	Island within the basin boundary: begins from point (46) and approximately follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (46).	{a}
47-47	E Alluvial	Island within the basin boundary: begins from point (47) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (47).	{a}
48-48	E Alluvial	Island within the basin boundary: begins from point (48) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (48).	{a}
49-49	E Alluvial	Island within the basin boundary: begins from point (49) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (49).	{a}
50-50	E Alluvial	Island within the basin boundary: begins from point (50) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (50).	{a}
51-51	E Alluvial	Island within the basin boundary: begins from point (51) and follows the contact of Quaternary alluvium and unnamed Pliocene sedimentary rocks with Cretaceous plutonic rocks and ends at point (51).	{a}
52-52	E Alluvial	Island within the basin boundary: begins from point (52) and follows the contact of Quaternary alluvium and unnamed Pliocene sedimentary rocks with Cretaceous plutonic rocks and ends at point (52).	{a}
53-53	E Alluvial	Island within the basin boundary: begins from point (53) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (53).	{a}
54-54	E Alluvial	Island within the basin boundary: begins from point (54) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (54).	{a}
55-55	E Alluvial	Island within the basin boundary: begins from point (55) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (55).	{a}
56-56	E Alluvial	Island within the basin boundary: begins from point (56) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (56).	{a}
57-57	E Alluvial	Island within the basin boundary: begins from point (57) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (57).	{a}
58-58	E Alluvial	Island within the basin boundary: begins from point (58) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (58).	{a}
59-59	E Alluvial	Island within the basin boundary: begins from point (59) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (59).	{a}
60-60	E Alluvial	Island within the basin boundary: begins from point (60) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (60).	{a}
61-61	E Alluvial	Island within the basin boundary: begins from point (61) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (61).	{a}
62-62	E Alluvial	Island within the basin boundary: begins from point (62) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (62).	{a}
63-63	E Alluvial	Island within the basin boundary: begins from point (63) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (63).	{a}
64-64	E Alluvial	Island within the basin boundary: begins from point (64) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (64).	{a}
65-65	E Alluvial	Island within the basin boundary: begins from point (65) and follows the contact of Quaternary alluvium with Cretaceous plutonic rocks and ends at point (65).	{a}
66-66	E Alluvial	Island within the basin boundary: begins from point (66) and follows the contact of Quaternary alluvium and unnamed Pliocene sedimentary rocks with Cretaceous plutonic rocks and ends at point (66).	{a}
67-67	E Alluvial	Island within the basin boundary: begins from point (67) and follows the contact of Quaternary alluvium and unnamed Pliocene sedimentary rocks with Cretaceous plutonic rocks and ends at point (67).	{a}
68-68	E Alluvial	Island within the basin boundary: begins from point (68) and generally follows the contact of Quaternary alluvium with Paleozoic to Mesozoic metasedimentary rocks and ends at point (68).	{a}

Significant Coordinates

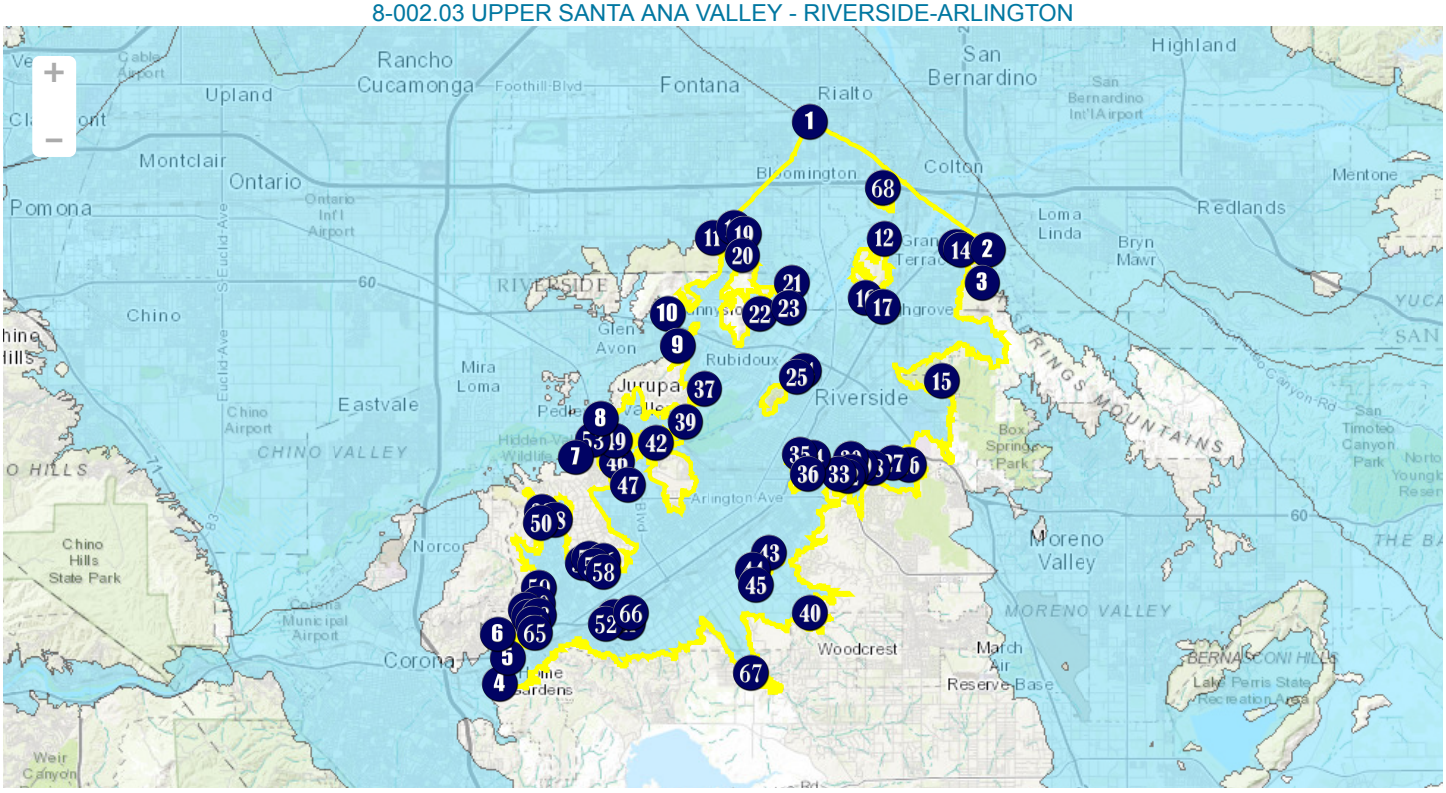
Point	Latitude	Longitude
1	34.092431516	-117.374750137
2	34.042959978	-117.2907649

3	34.029627105	-117.294017053
4	33.873700982	-117.520125644
5	33.883977615	-117.516509552
6	33.893090865	-117.521384067
7	33.961766484	-117.484552256
8	33.976700957	-117.473028527
9	34.005506228	-117.436698455
10	34.017682693	-117.441266283
11	34.047335155	-117.420322858
12	34.046632491	-117.339557508
13	34.043734686	-117.306049055
14	34.042523144	-117.303752943
15	33.99153552	-117.313149347
16	34.023847763	-117.348989044
17	34.020805781	-117.340161229
18	34.051141349	-117.410428202
19	34.048939313	-117.405467701
20	34.040385943	-117.406174337
21	34.02960028	-117.383008528
22	34.017906515	-117.398453531
23	34.020183717	-117.384616439
24	33.995440023	-117.377237261
25	33.993500122	-117.380892292
26	33.958900842	-117.328454066
27	33.959723307	-117.335655512
28	33.95770546	-117.345052786
29	33.958819538	-117.350552229
30	33.961649895	-117.355351613
31	33.956272634	-117.355709818
32	33.954387871	-117.357192481
33	33.955475163	-117.360881601
34	33.961706026	-117.373686391
35	33.963152554	-117.379447745
36	33.95592202	-117.375351836
37	33.988536834	-117.42432407
38	33.940612406	-117.500475437
39	33.975489795	-117.433053914
40	33.901732994	-117.374708913
41	33.89772038	-117.460236416
42	33.967699892	-117.446855591
43	33.924878716	-117.394039686
44	33.917978545	-117.401891018
45	33.912293299	-117.399894906
46	33.960349473	-117.465687393
47	33.951334231	-117.459902673

48	33.937343094	-117.494325029	
49	33.968058877	-117.466161425	
50	33.936521649	-117.500840385	
51	33.899722501	-117.466852328	
52	33.897125006	-117.47041001	
53	33.968676937	-117.476679584	
54	33.921028746	-117.481560415	
55	33.922412786	-117.478767166	
56	33.921544545	-117.471820976	
57	33.919789952	-117.47542141	
58	33.917628542	-117.471672382	
59	33.911172948	-117.502176016	
60	33.905160331	-117.502532151	
61	33.90279025	-117.508116638	
62	33.899753699	-117.506874391	
63	33.90047171	-117.50166571	
64	33.897270332	-117.504338318	
65	33.893399102	-117.503741289	
66	33.901422832	-117.458386485	
67	33.878213048	-117.401995598	
68	34.066422354	-117.340508899	

Map

8-002.03 UPPER SANTA ANA VALLEY - RIVERSIDE-ARLINGTON



http://sgma.water.ca.gov/bbat/?appid=160718113212&subbasinid=8-02.03

References

Ref	Citation	Pub Date	Global ID
{a}	California Geological Survey (CGS), Geologic Compilation of Quaternary Surficial Deposits in Southern California, T.L. Bedrossian, P. Roffers, C.A. Hayhurst, J.T. Lancaster, and W.R. Short. URL: http://www.conservation.ca.gov/cgs/fwgp/Pages/sr217.aspx	2012	50
{b}	Unknown/other/new	varies	46
{c}	California Department of Water Resources (DWR), Water Agencies Dataset. URL: https://gis.water.ca.gov/app/bbat/	2016	48
{d}	BBMRS	varies	45
{e}	California Department of Water Resources (DWR), Adjudicated Basins GIS layer, . URL: https://gis.water.ca.gov/app/bbat/	2016	44

Footnotes

I: Internal

E: External